



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
1600 EAST LAMAR BLVD  
ARLINGTON, TEXAS 76011-4511

March 4, 2013

Jeremy Browning, Site Vice President  
Arkansas Nuclear One  
Entergy Operations, Inc.  
1448 SR 333  
Russellville, AR 72802-0967

SUBJECT: ANNUAL ASSESSMENT LETTER FOR ARKANSAS NUCLEAR ONE, UNITS 1  
AND 2 (REPORT 05000313/2012801 AND 05000368/2012801)

Dear Mr. Browning:

On February 13, 2013, the NRC completed its end-of-cycle performance review of Arkansas Nuclear One, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2012 through December 31, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Arkansas Nuclear One, Units 1 and 2, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Arkansas Nuclear One, Units 1 and 2, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.


In our annual assessment letter dated March 5, 2012 (ML120610412), the NRC opened a substantive cross-cutting issue (SCCI) with the aspect of conservative assumptions in decision-making and adoption of requirements to demonstrate that the proposed action is safe in order to proceed rather than a requirement to demonstrate that it is unsafe in order to disapprove the action (H.1(b)). On February 11, 2013, the resident inspectors completed a focused baseline inspection of your corrective actions which were developed to address the substantive cross-cutting issue described above. The inspectors concluded that your staff thoroughly evaluated the issue through a root cause evaluation, and that the site personnel have demonstrated improved performance in verifying assumptions used in the decision-making process, which has facilitated conservative decision-making when challenged by plant issues. In addition, since the implementation of these corrective actions, there have been no safety significant findings identified. Based on these results, we are closing the substantive cross-cutting issue for conservative assumptions in the decision-making component.

The enclosed inspection plan lists the inspections scheduled through June 30, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (817) 200-1574 with any questions you have regarding this letter.

Sincerely,



Donald B. Allen, Chief  
Project Branch E  
Division of Reactor Projects

Docket Nos. 50-313, 50-368  
License Nos. DPR-51, NPF-6

Enclosure:  
Arkansas Nuclear One, Units 1 and 2 Inspection/Activity Plan

02/26/2013

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## Arkansas Nuclear One

## Inspection / Activity Plan

03/01/2013 - 06/30/2014

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
1	02/25/2013	03/05/2013	EXAM - INITIAL LICENSED OPERATOR EXAM X02499	INITIAL EXAM FOR ANO UNIT 1 (03/01/2012)	4
1, 2	01/01/2013	06/30/2013	TI - 182 - DEGRADATION OF UNDERGROUND PIPING IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	2
1, 2	03/04/2013	03/22/2013	PI&R 52B - BIENNIAL PI&R IP 71152B	Problem Identification and Resolution	8
1, 2	04/01/2013	04/05/2013	PSB2-RP - RADIATION SAFETY IP 71124.01	Radiological Hazard Assessment and Exposure Controls	2
1, 2	04/01/2013	04/05/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/01/2013	04/05/2013	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	04/01/2013	04/05/2013	IP 71151-PR01	RETS/ODCM Radiological Effluent	
1	04/01/2013	04/12/2013	PSB2-ISI - INSERVICE INSPECTION IP 7111108P	Inservice Inspection Activities - PWR	1
1	04/08/2013	04/12/2013	EB2-03 - POST-APPROVAL LICENSE RENEWAL IP 71003	Post-Approval Site Inspection for License Renewal	2
1, 2	04/01/2013	06/30/2013	TI-187 - FLOODING WALKDOWNS IP 2515/187	Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns	3
1, 2	04/01/2013	06/30/2013	TI-188 - SEISMIC WALKDOWNS IP 2515/188	Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns	3
1, 2	06/10/2013	06/14/2013	EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION IP 7111105T	Fire Protection [Triennial]	4
1, 2	06/24/2013	06/28/2013	IP 7111105T	Fire Protection [Triennial]	
1, 2	07/15/2013	07/19/2013	PSB2-RP - RADIATION SAFETY IP 71124.02	Occupational ALARA Planning and Controls	2
1, 2	07/15/2013	07/19/2013	IP 71124.04	Occupational Dose Assessment	
1, 2	03/03/2014	03/07/2014	EB2-03 - POST-APPROVAL LICENSE RENEWAL (TEAM) IP 71003	Post-Approval Site Inspection for License Renewal	4
1, 2	03/24/2014	03/28/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
1, 2	03/17/2014	03/21/2014	RS12 - RADIATION SAFETY IP 71124.01	Radiological Hazard Assessment and Exposure Controls	2
1, 2	03/17/2014	03/21/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/17/2014	03/21/2014	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	03/17/2014	03/21/2014	IP 71151-PR01	RETS/ODCM Radiological Effluent	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

## Arkansas Nuclear One

## Inspection / Activity Plan

03/01/2013 - 06/30/2014

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
1, 2	04/21/2014	05/02/2014	EB1-17T - TRIENNIAL PERM PLANT MODS & 50.59		3
			IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1, 2	05/12/2014	05/16/2014	RS 5678 - RADIATION SAFETY - TEAM		4
			IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	05/12/2014	05/16/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	05/12/2014	05/16/2014	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	05/12/2014	05/16/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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